

# CHRONIC DISEASES

A microscopic view of numerous red blood cells, which are biconcave discs, floating in a teal-colored fluid. The cells are densely packed in the upper half of the image and more spread out in the lower half. The lighting creates a gradient from red to orange and yellow on the cells.

Carmen  
Nick  
Melissa  
Samira  
Pedro

# Diabetes



## *Problem:*



Juvenile diabetes Type 1, but also Type 2 diabetes. It is difficult to both detect and inject insulin in children.



## *Possible solutions:*



Detecting blood sugar levels in a convenient ways and injecting insulin in children, so that it is less of a hindrance to their lives.

# Organ Failure



*Problem:*



When fixing one organ, you are simultaneously affecting other organs.



*Solution:*



Artificial immune system. Independent medication that does not depend on the immune system.



Releasing interferons to protect cells of other organs.

# Hepatitis C



*Problem:*



A viral disease that destroys the liver.



*Solution:*



Destroy the protein that makes up the virus and then the viral infection would not kill off the liver cells.



Coming up with a vaccine.



# Cancer



*Problem:*



To avoid chemotherapy. People die from the treatment rather than the actual disease.



*Solution:*



Looking for a medication that does not bring about the side effects of current chemotherapy. Looking at the signaling pathways and look for any abnormal use of a singular pathway. Mapping the pathway, and then turning it off.